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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,755	10/21/2003	Kazuhito Saeki	3140-016	6009
	7590 02/21/2007 WERSOX, P.L.L.C.	EXAMINER		
400 HOLIDAY COURT			LIEW, ALEX KOK SOON	
SUITE 102 WARRENTON	J. VA 20186		ART UNIT	PAPER NUMBER
	,		2624	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/689,755	SAEKI, KAZUHITO				
Office Action Summary	Examiner	Art Unit				
	Alex Liew	2624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for repty is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this communication.				
Status						
	Responsive to communication(s) filed on <u>21 October 2003</u> .					
·—	,—					
•—						
closed in accordance with the practice under E	х рапе Quayle, 1935 С.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the application.	4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>21 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sathyanarayana (US pub no 2004/0146201).

With regards to claim 1, Sathyanarayana discloses an image processing apparatus comprising

an edge window setting unit for an edge window for detecting an edge of an object in image (see fig 5 - 130 – there are elements unit with in the dotted line window),

an element setting unit for setting a plurality of window elements in the one edge window setting unit (see fig 5 - 120 – these smaller window are use for detecting edge within 130).

an edge detection unit for scanning each of the window elements and obtaining edges every each the window element (in fig 5 – all the smaller windows, 120, within 130 had detected edges) and

a calculation unit for obtaining an edge related information from the edges detected by said edge detection unit (see paragraph 19 lines 17 – 23).

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Sathyanarayana does not disclose the object in the image being a workpiece. However, the methods of Sathyanarayana are the same as what is claimed in claim 1. A computer only identifies the values of pixels of object at pixel locations within images, but does not know the type of object in the image until identification of classification of the image object is performed. One skill in the art would detect edges of a workpiece in images in order to measure the dimensions of the workpiece and find defects on the workpiece, so the operator is able to correct the defects minimizing errors.

With regards to claims 4 and 5, see the rationale and rejection for claim 1. In addition, Sathyanarayana uses a computer with a storage medium containing programs to perform methods on claim 1 (see paragraph 2 – eg. medical ultra sound imaging device requires a computer).

3. Claims 2, 3, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sathyanarayana (US pub no 2004/0146201) as applied to claim 1 further in view of official notice (MPEP 2144.03).

With regards to claim 2, Sathyanarayana discloses all of the claim elements / features as discussed above in rejection for claim 1 and incorporated herein by reference, but fails to disclose having the user set the width of unit windows. It is well known in the art to have the user specific the window size of an edge detection operator. For example Photoshop as a function having the user set the size of the Sobel filter window. One skill

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in the art would have the user set the size of the window size because to have the user

experiment with the image filtered results of using different Sobel window size to find

the best result.

With regards to claim 3, Sathyanarayana discloses all of the claim elements / features

as discussed above in rejection for claim 1 and incorporated herein by reference, but fail

to disclose having the *user assign* the distance between adjacent windows.

Sathyanarayana discloses the arrays of windows having a predetermined arrangement

(see paragraph 18 lines 1-3) and an example of this arrangement is having a square

arrangement with each window at each corner, paragraph 18 lines 10 – 12. It is well

known in the art to have the user set image filtering parameters (MPEP 2144.03). One

skill in the art would have the user set the distance between adjacent windows because

to have the user experiment with the filtered image results of using different parameter

values to find which parameter gives the best result.

With regards to claim 6, see the rationale and rejection for claim 2.

With regards to claim 7, see the rationale and rejection for claim 3.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alex Liew whose telephone number is (571)272-8623. The examiner can normally be reached on 9:30AM - 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on (571)272-7695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alex Liew AU2624 2-12-07

SUPERVISORY PATENT EXAMINER